PHOTOGRAPHIC INTERPRETATION REPORT

SVOBODNYY ICBM COMPLEX USSR

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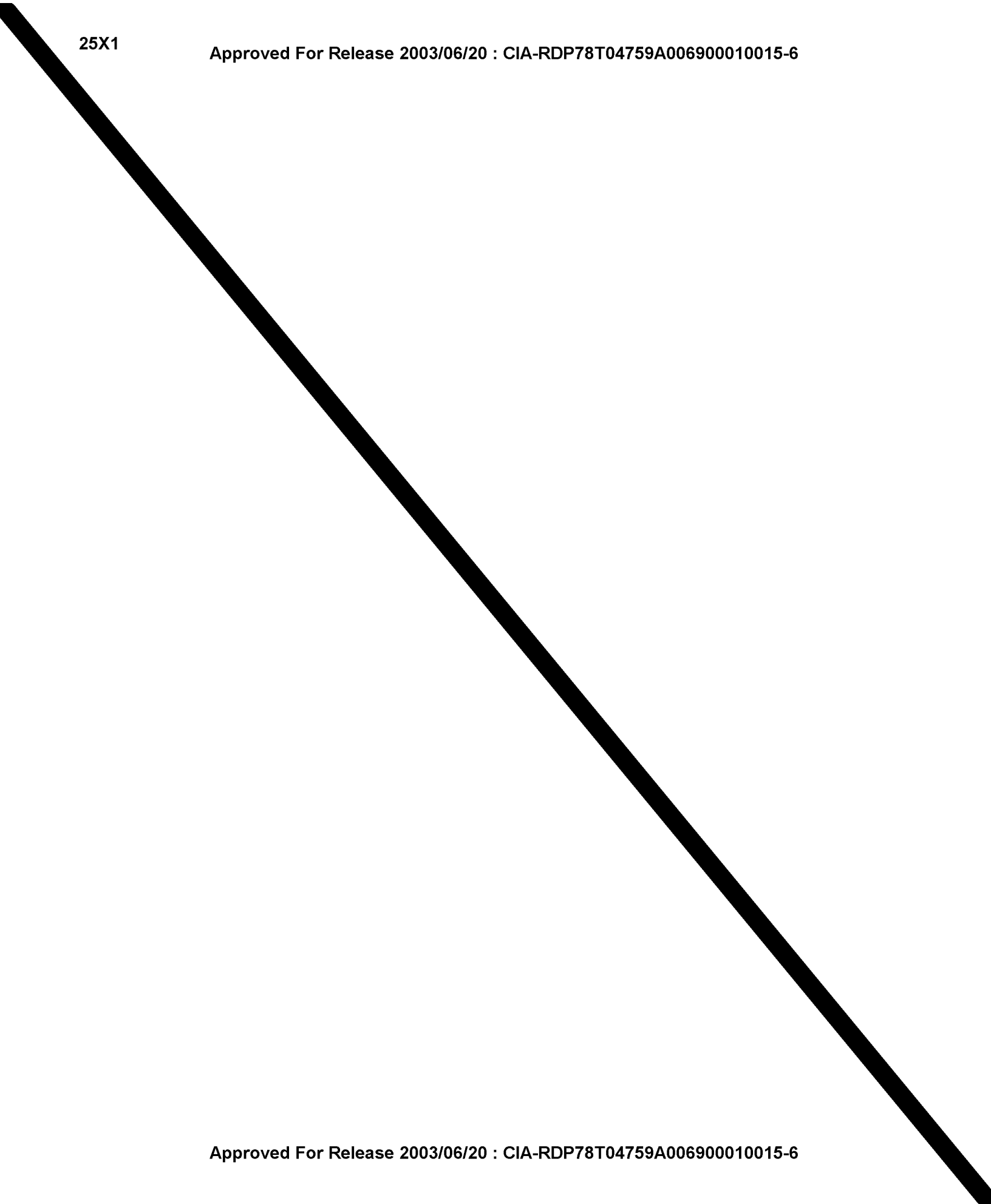

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PREFACE

This report updates and supersedes [redacted] Svobodnyy ICBM Complex, USSR, 1/ the initial report in a series prepared in response to CIA Requirement C-DI5-82,972 requesting detailed line drawings, to scale, of elements of the complex. The information contained herein is based on [redacted] photography [redacted] Individual reports will be updated periodically to reflect changes observed on subsequent photography.

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SVOBODNYY ICBM COMPLEX, USSR

The Svobodnyy ICBM Complex, (Figure 1) easternmost complex in the USSR, is in the Eastern Mountains Region of Eastern Siberia, in the Amur Oblast of the Russian SFSR. It is west of the Zeya river, and along both sides of the Trans-Siberian Railroad about 50 nm from the Chinese border. The complex support facility is east of the railroad and 21.5 nm north of the city of Svobodnyy, an industrial and agricultural center on the Trans-Siberian Railroad at the confluence of the Bolshaya Pera and Zeya rivers.

There are 4 types of launch sites deployed at this complex, for a total of 57 sites and 1 possible site. They are 3 Type IIB, 4 Type IID, and 1 Type IIIA, plus 4 full and 1 partial groups of Type IIID launch sites. The deployed sites cover an area extending nearly 50 nm north-south and 35 nm east-west. Two of the launch groups are generally west of the city of Svobodnyy, with the furthest sites about 35 nm from the complex support facility. The remainder of the complex is north of Svobodnyy, with the launch sites deployed within a radius of about 15 nm around the complex support facility.

Terrain in the region that includes the complex is well drained and slopes generally from north to south. Relative relief within individual launch groups is seldom over 100 feet. The entire complex lies between 600 and 1,000 feet above sea level. The Bolshaya Pera river, paralleling the railroad, flows south to empty into the Zeya river east of Svobodnyy. Topography is not conducive to widespread agriculture. Many small, steep-sided drains intersperse the area to empty into the Bolshaya Pera river or one of its tributaries. Ridges between the drains are narrow and sharp. Most of the region is covered by a scrub growth of brush and small trees. Scattered patches of land, mostly along the ridge tops, have been cleared and converted to agriculture. These increase in size and density as they approach the city. The few towns and villages in the area of the complex north of the city are mostly in the valley of the Bolshaya Pera river. West of the city, only a few villages are within the area of the complex.

The Southern Mountains Region contains a number of ranges which seldom extend above 5,000 feet; also many valleys, some of them containing extensive swamp areas, especially in the south of the region. The Svobodnyy ICBM Complex is in such a valley, and its climate is probably the mildest for the entire region. Peripheral mountains and hills tend to limit the influence of the Pacific Ocean. Winters are generally clear and cold, with mean temperatures ranging between -4°F and -25°F during January, the coldest month. Snowfall is occasional but, because of the prevailing low temperatures, generally remains

SVOBODNYY ICBM COMPLEX, USSR

Component	Type	[redacted]	Geographic Coordinates
Complex Support Facility	--		51-46N 128-06E
Launch Site 1	IIB		51-49N 128-18E
Launch Site 2	IIB		51-52N 128-22E
Launch Site 3	IIB		51-54N 128-09E
Launch Site 4	IID		51-58N 128-06E
Launch Site 5	IID		51-51N 128-12E
Launch Site 6	IID		51-43N 127-59E
Launch Site 7	IIIA		51-37N 127-57E
Launch Site 8	IID		52-02N 128-03E
Launch Group I			
Launch Site 10I	IIID		51-47N 128-09E
Launch Site 11I[a]	IIID		51-53N 128-10E
Launch Site 12I	IIID		51-48N 128-03E
Launch Site 14I	IIID		51-50N 128-08E
Launch Site 15I	IIID		51-55N 128-05E
Launch Site 16I	IIID		51-51N 128-02E
Launch Site 17I	IIID		51-54N 127-59E
Launch Site 21I	IIID		51-57N 127-59E
Launch Site 22I	IIID		51-59N 128-02E
Launch Site 23I	IIID		51-48N 128-14E
Launch Group J			
Launch Site 18J[a]	IIID		51-43N 127-56E
Launch Site 19J	IIID		51-46N 128-00E
Launch Site 31J	IIID		51-39N 128-08E
Launch Site 32J	IIID		51-43N 128-04E
Launch Site 38J	IIID		51-40N 128-03E
Launch Site 42J	IIID		51-41N 127-51E
Launch Site 43J	IIID		51-38N 127-53E
Launch Site 46J	IIID		51-46N 127-54E
Launch Site 47J	IIID		51-45N 127-49E
Launch Site 53J	IIID		51-36N 128-03E
Launch Group K			
Launch Site 9K	IIID		51-27N 128-01E
Launch Site 24K	IIID		51-30N 127-58E
Launch Site 25K[a]	IIID		51-27N 127-56E
Launch Site 26K	IIID		51-23N 127-53E
Launch Site 27K	IIID		51-24N 128-03E
Launch Site 29K	IIID		51-20 N 127-59E
Launch Site 30K	IIID		51-31N 127-50E
Launch Site 34K	IIID		51-23N 127-58E
Launch Site 36K	IIID		51-19N 127-54E
Launch Site 37K	IIID		51-26N 127-50E
Launch Group L	IIID		
Launch Site 40L[a]	IIID		51-15N 127-37E
Launch Site 41L	IIID		51-12N 127-36E
Launch Site 45L	IIID		51-20N 127-48E
Launch Site 49L	IIID		51-22N 127-37E
Launch Site 50L	IIID		51-18N 127-35E
Launch Site 51L	IIID		51-15N 127-32E
Launch Site 52L	IIID		51-13N 127-41E
Launch Site 54L	IIID		51-24N 127-45E
Launch Site 55L	IIID		51-17N 127-46E
Launch Site 56L	IIID		51-19N 127-43E
Launch Group M			
Launch Site 58M	IIID		51-39N 128-15E
Launch Site 59M	IIID		51-42N 128-26E
Launch Site 61M (Prob)	IIID		51-35N 128-12E
Launch Site 62M (Prob)	IIID		51-35N 128-17E
Launch Site 63M	IIID		51-39N 128-24E
Launch Site 64M	IIID		51-41N 128-19E
Launch Site 65M	IIID		51-44N 128-13E
Launch Site 66M	IIID		51-37N 128-21E
Launch Site 57X	IIID		51-46N 128-08E
Launch Site 60 (Poss)			51-42N 128-31E

[a]Control site

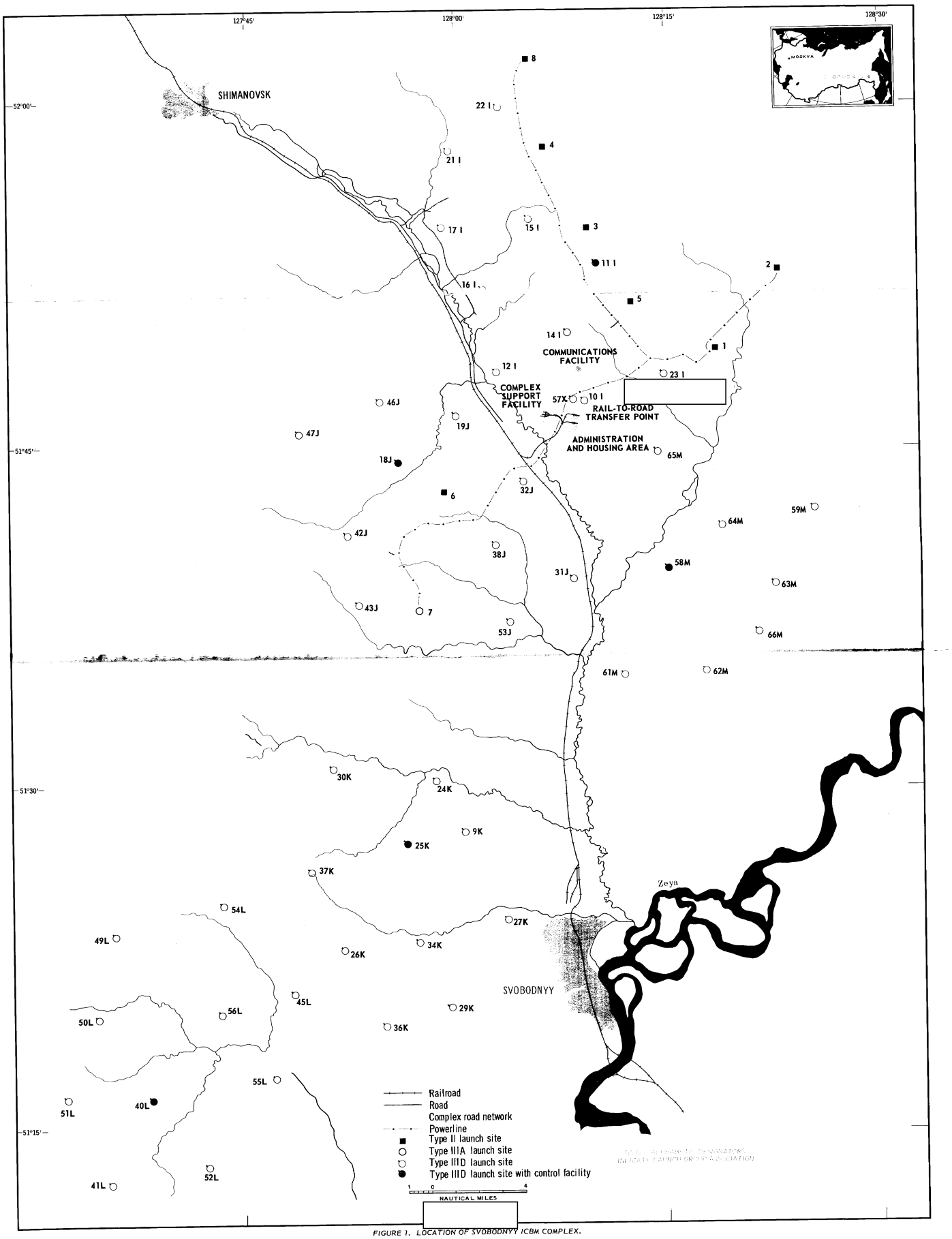

FIGURE 1. LOCATION OF SVOBODNYY ICBM COMPLEX.

on the ground from mid-November through March. Summers are warm, with increased cloud cover and frequent showers. Mean temperatures during July range between 59°F and 80°F. Cloudiness during the summer months averages about 60 percent from April through September.

A rail spur from the Trans-Siberian Railroad serves the complex support facility and the rail-to-road transfer point. Svobodnyy and Shimanovsk are joined by a first-class highway with connections into the complex support facility. A good highway runs west out of Svobodnyy through 2 of the launch groups. Within the complex, a system of well-engineered roads was constructed concurrently with the launch sites to provide all-weather access to each of the sites. Sites still under construction will be included in this road system as they near completion.

Initial deployment of the complex was identified [redacted] when the complex support facility, rail-to-road transfer point, and 3 Type IIB launch sites were observed. Negation dates for the complex support facility and one of the launch sites are not available; the other 2 sites, however, can be negated [redacted] Appearance of the facilities when they were first observed would indicate the complex support facility was started [redacted] and the 3 Type IIB launch sites [redacted] 2 Type IID launch sites were observed under construction and 2 more of these sites were started [redacted] The Type IIIA launch site was probably started in mid-1963. These sites were all completed [redacted] and the entire complex at that time fell within a 13-nm radius of the complex support facility.

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[redacted] construction activity was again observed which was identified as Type IIID launch sites. One of these sites was probably started [redacted] and 39 [redacted] there have been 9 more sites and 1 possible site observed under construction. The sites are deployed in groups of 10. Two of these groups are within the limits of the original complex; 2 other groups are south of the original complex and west and southwest of the city of Svobodnyy. The fifth group to be deployed is southeast of the complex support facility. None of the Type IIID sites has been completed but 2 groups are in a late stage of construction.

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This is the most active of the complexes containing Type IIID launch sites. There have been 9 new sites observed under construction [redacted] At least 2 more sites will have to be confirmed to complete the fifth group.

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In view of the general cessation of work at most of the other Type IIID complexes, future expansion of this complex is unpredictable at this time

beyond the 5 groups now being deployed. The stockpile of materials in the railhead and storage area is sufficient only for the groups presently under construction. There is unidentified activity observed east and southeast of the complex support facility, in the general vicinity of the last group to be deployed. Lack of space is no deterrent to continuing deployment. The extensive area generally west of the complex appears to be well suited to Type IIID launch sites.

REFERENCES

PHOTOGRAPHY

25X1D [redacted]

DOCUMENT

25X1 1. NPIC [redacted] *Svobodnyy ICBM Complex, USSR*, Dec 66 (TOP SECRE [redacted] 25X1

REQUIREMENT

CIA, C-DI5-82,972

NPIC PROJECT

11210/66 (partial answer)